



AP4 deficiency: A novel form of neurodegeneration with brain iron accumulation?

Submitted by Guy Lenaers on Sat, 12/22/2018 - 17:51

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| Titre | AP4 deficiency: A novel form of neurodegeneration with brain iron accumulation? |
| Type de publication | Article de revue |
| Auteur | Roubertie, Agathe [1], Hieu, Nelson [2], Roux, Charles-Joris [3], Leboucq, Nicolas [4], Manes, Gael [5], Charif, Majida [6], Echenne, Bernard [7], Goizet, Cyril [8], Guissart, Claire [9], Meyer, Pierre [10], Marelli, Cecilia [11], Rivier, François [12], Burglen, Lydie [13], Horvath, Rita [14], Hamel, Christian [15], Lenaers, Guy [16] |
| Editeur | Lippincott, Williams & Wilkins |
| Type | Article scientifique dans une revue à comité de lecture |
| Année | 2018 |
| Langue | Anglais |
| Date | Février 2018 |
| Numéro | 1 |
| Pagination | e217 |
| Volume | 4 |
| Titre de la revue | Neurology. Genetics |
| ISSN | 2376-7839 |
| Mots-clés | AP4M1 neuropathy with brain iron accumulation [17] |
| Résumé en anglais | <p>Objective: To describe the clinico-radiological phenotype of 3 patients harboring a homozygous novel pathogenic mutation.</p> <p>Methods: The 3 patients from an inbred family who exhibited early-onset developmental delay, tetraparesis, juvenile motor function deterioration, and intellectual deficiency were investigated by magnetic brain imaging using T1-weighted, T2-weighted, T2*-weighted, fluid-attenuated inversion recovery, susceptibility weighted imaging (SWI) sequences. Whole-exome sequencing was performed on the 3 patients.</p> <p>Results: In the 3 patients, brain imaging identified the same pattern of bilateral SWI hypointensity of the globus pallidus, concordant with iron accumulation. A novel homozygous nonsense mutation was identified in , segregating with the disease and leading to truncation of half of the domain of the protein.</p> <p>Conclusions: Our results suggest that represents a new candidate gene that should be considered in the neurodegeneration with brain iron accumulation (NBIA) spectrum of disorders and highlight the intersections between hereditary spastic paraplegia and NBIA clinical presentations.</p> |
| URL de la notice | http://okina.univ-angers.fr/publications/ua18500 [18] |
| DOI | 10.1212/NXG.0000000000000217 [19] |
| Lien vers le document | http://ng.neurology.org/content/4/1/e217 [20] |
| Titre abrégé | Neurol Genet |

Liens

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Publié sur *Okina* (<http://okina.univ-angers.fr>)